Master "C Language" in 30 Days Challenge

Day 3   By TECH INVOLVERS

Instructions:

- Read the problem carefully before trying to solve it.
- Do the tasks on your own. Don't copy it.
- The output of your program must be same as given in sample run.

Problem 1:

Write a program that takes three numbers from user and prints all numbers are same if they are equal ,otherwise prints the largest and smallest number among them.

Sample Run:

Enter three numbers: 19 0 -19

Smallest Number : -19

Greatest Number : 19

Problem 2:

Write a program that takes three angles(positive numbers) of a triangle from user and prints "Yes, such triangle is possible" if sum of all angles is 180 degrees, otherwise prints "Sorry, Such triangle can't exist".

Sample Run:

Enter three angles of a triangle: 90 45 45

Yes, such triangle is possible.

Problem 3:

Write a program that generates two random numbers. First number should be in the range[10,99] and second number should be less than first number. Then it, checks whether their sum is even or odd and prints out the result.

Sample Run:

Two random numbers : 20 19

Their sum is odd.

Problem 4:

Write a program in C that checks whether number entered by user is even or odd using **Bitwise operators.**

Sample Run:

Enter the number: 4

4 is an even number.

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Problem 5:

TECH INVOLVERS hires you to make a program that calculates the electricity bill depending upon consumer type(home or commercial) and provide you with the following criteria:

Home Consumers		Commercial Consumers	
First 100 Units	Rs. 11	First 100 units	Rs. 15
Next 100 Units	Rs. 15	Next 100 Units	Rs. 22
Next Units	Rs. 20	Next Units	Rs. 30
Fixed Tax	Rs. 700	Fixed Tax	Rs.1100
GST	10% of electricity cost	GST	15% of electricity cost

The program asks for consumer type(C for commercial and H for home consumer) and then scans for number of units consumed and it displays the electricity cost ,GST and Total electricity bill that is sum of electricity cost, fixed tax, and GST.

Sample Run:

Select the Consumer type:

C for commercial

H for home.

Enter consumer type: H

Enter number of units consumed: 212

Electricity Cost: 2820.00 rupees

GST   : 282.00 rupees

Net Electricity Bill: 3802 rupees